

on the use of fluorescence and methods of
photographic analysis, by I. A. Wozhikova, V. G.
Mazurkin, 5 pp.

REVIEW, per, Metekhnika, Vol. 4, No 4, 1962,
p. 575.

MLL, Tr Bulletin
Vol. 4, No 5, 1962

Vol. 4 - Chem

Vol. 52

207,799

Thermal Alkylation of Methylcyclohexane With
Olefins Under Pressure, by N. M. Kazarova,
B. L. Kh. Freydlin, et al, 11 pp.

RUSSIAN, part, Izvestiya, Vol I, No 5, 1961.
pp 617-628. 9667803

FTD-TT-62-1185

Sci-Chem
Mar 63

223,646

Alkylating Tetrahydronaphthalene by Olefins in the
Aliphatic Ring, by L. Kh. Freydlin, N. M. Kharakova,
8 pp.

RUSSIAN, per, Naftekhimiya, Vol I, No 5, 1961,
pp 619-623. 9667803
FTD-TT-62-1185

Sci.-Chem
Mar 63

223,647

Oxidation of Hydrocarbons With a High Degree of
Conversion, by L. K. Obukhova, V. M. Gol'dberg,
et al., 3 pp.

RUSSIAN, paper, Neftokhimiya, Vol I, No 5, 1961,
pp 669-674. 9667804

9
FID-FT-62-1185

Sci-Chem
Mar 63

203,040

Kamzolkin, V. V., Ranzhirov, A. N., Sokova, K. M.
and others.

CONVERSIONS OF HIGHER ALIPHATIC ALCOHOLS
IN THEIR LIQUID-PHASE OXIDATION [1953] 14p

29 refs

Order from OTS, SLA, or ETC \$1.60 TT-64-10786

Trans. of Neftekhimiya (USSR) 1961, v. 1 [no. 5]
p. 675-682. (Abstract available)

DESCRIPTORS: *Alcohols, *Oxidation, Molecular
structure, *Esters, *Ketones, Synthesis (Chemistry).

It was established that during liquid-phase oxidation of
higher n-aliphatic alcohols oxidation reactions occur
also in the alkyl-part of molecule with formation of
bifunctional compounds, the portion of which in reac-
tion products varies as function of OH-group position in
the molecule. This portion drops with OH-group dis-
placement from end of chain toward middle of chain.
(Chemistry--Organic, TT, v. 11, no. 9) (over)

TT-64-10786

L. Kamzolkin, V. V.
A. N. Ranzhirov, A. N.
K. M. Sokova, K. M.

Office of Technical Services

KFK-tr-131 Uncl.

γ -RADIOLYSE VON n-HEXAN IN GEGENWART VON
GERINGEN MENGEN BENZOL. (γ -Radiolysis of
n-Hexane in the Presence of Limited Amounts
of Benzol). L. S. Polak, N. Ya. (Ja.)
Chernyak (Cernjak), V. A. Skakhray (Sachraj),
and A. S. Shcherbakova (Scerbakova). Translated
into German by Peter Buriks (Kernreaktor
Bau- und Betriebs-Gesellschaft m.b.H.,
Karlsruhe, Germany) from Neftekhimiya, 1:
695-9 (Sept.-Oct. 1961). 10p. *Russian*

For abstract, see NSA, 16: 20512.

Chemistry; Translations MC-4
C-4 NP RC Dep.(mc); \$1.10(fs), \$0.80(mf)
N-9 JCL

63-12823

Grishina, O. N. and Sabirova, R. Z.
SYNTHESIS OF DICHLORIDES OF ALKYLPHOSPHONIC
ACIDS FROM n-PARAFFINIC HYDROCARBONS BY
THE METHOD OF OXIDATIVE PHOSPHONATION.
[1963] Sp.
Order from ATS \$7.50

ATS-81Q66R

Trans. of Neftekhimiya (USSR) 1961, v. 1, no. 6,
p. 796-799.

DESCRIPTORS: *Hydrocarbons, *Phosphonic acids,
*Alkyl radicals, *Chlorides, Synthesis.

(Chemistry--Organic, TT, v. 10, no. 3)

- I. Title: Oxidative
Phosphonation
- I. Grishina, O. N.
- II. Sabirova, R. Z.
- III. ATS-81Q66R
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RJ-4023

Office of Technical Services

Investigation of the Recombination Products of Alkyl
Radicals in Liquid-Phase ~~XXXXXX~~ Radiolysis of
n-Hexane, by N. A. Belikova, V. G. Berezkin,
15 pp.

RUSSIAN, PER, Neftekhimiya, 1, No 6, 1961,
pp 828-835. 9679696

FTD-TT-62-1270

Sci-Chem, Phys
Mar 63

224,810

TT-63-18842

Eidus, Ya. T., Nefedov, B. K., and Lobzova, A. V.
CATALYTIC POLYMERIZATION OF OLEFINS. PT. 15.
LIQUID PRODUCTS OF ETHYLENE POLYMERIZA-
TION ON THE CATALYST NICKEL-OXIDE-ALUMINO-
SILICATE, UNDER HIGHER PRESSURE. [1963] [9]p.
Refs.

Order from OTS, SLA, or ETC \$1.10 TT-63-18842

Trans. of Neftskhimiya (USSR) 1962, v. 2 [no. 1]
p. 21-27. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Ethylenes,
Polymerization, *Catalysts, *Nickel catalysts,
*Aluminum compounds, *Silicates, Liquids, Hydro-
carbons, Raman spectroscopy

The polymerization of ethylene on impregnated
NiO-aluminosilicate catalyst at 275-300 C under
5-30 atm. in a space velocity range from 100 to 2,000
(Materials--Plastics, TT, v. 11, no. 1) (over)

I. Eidus, Ya. T.
II. Nefedov, B. K.
III. Lobzova, A. V.
IV. Title: Liquid...

Office of Technical Service

Catalytic Properties of Rhenium-Aluminum-Palladium
Catalysts in the Reactions of Hydrocarbons and
Their Mixtures, by M. A. Ryashentseva.

RUSSIAN, per, Neftekhimiya, No 1, 1962, pp 37-40.

NTC 72-14391-07D

Jan 73

Energy Transfer in the Radiolysis of Hydrocarbons, by A. M. Brodskiy, Yu. A. ~~KOLBANOVSKIY~~
Kolbanovskiy, et al, 24 pp.

RN RUSSIAN, per, Neftekhimiya, Vol II, No 1,
1962, pp 54-67. 9213640

AEC-tr-5900

Sci-Phys

Sep 63

345, 241

The Influence of the Structure of Hydrocarbons
on the Formation of Radicals During Low-Temperature
Gaseous Radiolysis in the Solid Phase, by O. I.
Lopandina, I. S. Polak, 6 pp.

RUSSIAN, per, Neftelkhiya, Vol. II, 1962, pp 68-70.

9213037

AEC-Tr-5861

Sci - Incl Sci

Aug 63

343,639

Isolation of Methylcyclopentane and Cyclohexane
From Petroleum Fractions by Ye. M. Roznashvili,
8 pp.

RUSSIAN, per. Izvestiya, Vol 2, No 2, 1962,
pp 160-163. 9669968

FTD-FF-63-563

Sci - Chem

344,689

Sept 63

Polyanskii, N. G., Markevich, S. M. and others.
THE SELECTIVE EXTRACTION OF ISOAMYLENES
FROM HYDROCARBON MIXTURES. [1963] [8 p.
12 refs.

Order from OTS or SLA \$1.10

63-18750

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 2].
p. 164-169.

DESCRIPTORS: Pentanes, *Methyl radicals, *Butenes,
Alcohols, Petroleum, Ion exchange resins, Hydro-
carbons, Mixtures.

It was found that only the tertiary amylenes, of all
C₅-olefins in pentane-amylenic fraction, are hydrated
in the presence of H-cation exchanging resin KU-2 at
75 C. Under dynamic conditions, the conversions of
amylenes per pass were unaffected by water addition to
the catalyst. T.-amyllic alcohol could be produced at
any dilution of the t.-amylenes on the ion-exchanger by
(Chemistry--Organic, TT, v. 10, no. 11) (over)

63-18750

1. Title: Isoamylenes
- I. Polyanskii, N. G.
- II. Markevich, S. M.

Office of Technical Services

Effect of Heat Treatment of Aluminosilicate
Catalysts in Vacuo on their Structure, by
K.V. Topchieva and E.N. Rosolovskaya.
RUSSIAN, per, Neftekhimiya, 1962, vol.2,
no.2, pp. 175-178.

ATS-83 R 76 R

Mat/Metal
Aug 66

307,697

63-18848

Sharaev, O. K., Topchieva, K. V. and others.
THE NATURE OF INDUCTION PERIOD IN ETHYLENE POLYMERIZATION ON CHROMIA CATALYST.
[1963] 2p. 1 ref.

Order from OTS or SLA \$1.10

63-18848

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 2]
p. 187-188.

DESCRIPTORS: *Polyethylene plastics, *Ethylenes,
Polymerization, *Chromium catalysts, Solvents,
*Octanes.

Experimental results of chromia catalyst treatment by isooctane confirmed that formation of the catalytic activity occurs during the induction period because of a reduction of the hexavalent chromium catalyst under the action of reagent- the ethylene. (Author)

(Materials--Plastics, TT, v. 10, no. 12)

I. Sharaev, O. K.
II. Topchieva, K. V.

Office of Technical Services

R-1122-N

Radiation Thermal Cracking of Hydrocarbons (USSR),
by Topchiyer, A. V.

RUSSIAN, per, Nefttekhimiya, Vol 11, No 2, 1962,
pp 196-210.

*JPRS/Redstone Arsenal

Sci-Phys
Feb 63

TT-64-12748

Smirnov, O. K. and Grineva, N. I.
CONJUGATED OXIDATION OF PHOSPHORUS
TRICHLORIDE AND MIXTURES OF ALIPHATIC
HYDROCARBONS. [1964] 6p

Order from ATS \$7.75

ATS-34Q74R

Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 2,
p. 237-241.

I. Smirnov, O. K.
II. Grineva, N. I.
III. ATS-34Q74R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

(Chemistry--Organic, TT, v. 11, no. 12)

Office of Technical Services

63-18752

Shokova, E. A., Khromov, S. I. and others.
CATALYTIC REARRANGEMENTS OF CYCLONONANE
AND CYCLODECANE IN THE PRESENCE OF A
NICKEL CATALYST. [1963][10]p. 10 refs.
Order from OTS or SLA \$1.10 63-18752

1. Title: Cyclodecane
2. Title: Cyclononane
1. Shokova, E. A.
- II. Khromov, S. I.

Trans. of Neftekhimiya (USSR) 1962, v. 2, p. 280-287.

DESCRIPTORS: *Methanes, *Octanes, *Cyclohexanes,
*Methyl radicals, *Cyclopentanes, *Heptanes,
*Nickel catalysts, Raman spectroscopy, Kieselguhr,
Benzene, Catalysis.

Catalytic conversions of cyclononane and cyclodecane
were studied in the presence of nickel upon kieselguhr
and in a stream of hydrogen at 200 and 250 C. The sub-
stances undergo under these conditions a transannular
dehydrocyclization, a direct hydrogenolysis and a
stepwise isomerization of their cycles. The reaction
products of cyclononane were n-nonane, n-octane,
(Chemistry--Organic, TT, v. 10, no. 12) (over)

Office of Technical Services

Sterligov, O. D. and Rozhkova, M. I.
CONTINUOUS ISOMERIZATION OF THE 2-METHYL-
BUTENES-2 AND -1 [INTO] 3-METHYLBUTENE-1.
[1963] [3]p. 3 refs.

Order from OTS or SLA \$1.10

63-18846

Trans. of Neftekhimiya (USSR) 1962, v. 2, p. 288-290.

DESCRIPTORS: *Butenes, Methyl radicals, *Molecular
isomerism, Synthesis (Chemistry), Catalysts, Alumi-
num compounds, Oxides, Fractionation,
Polyethylene plastics.

The possibility of a continuous process for the synthesis
of 3-methylbutene-1 is shown, based on the isomeriza-
tion of the two other isobutylenes on active aluminum
oxide and a subsequent fractionation in efficient lab-
oratory columns. Process continuity was reached
through combination of the isomerization and fractiona-
(Chemistry--Organic, TT, v. 10, no. 12) (over)

63-18846

1. Title: 2-Methyl 1-butene
 2. Title: 2-Methyl 2-butene
 3. Title: 3-Methyl 1-butene
- I. Sterligov, O. D.
 - II. Rozhkova, M. I.

Office of Technical Services

Topchieva, K. V. and Rosol'skaya, E. N.
EFFECT OF DEHYDRATION OF ALUMINOSILICATE
CATALYST ON ITS ACIDITY. [1964] 9p Lirfa
Order from OTS, SLA, or ETC \$1.10 TT-64-14945

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 3]
p. 298-304.

OTS-TT-CY-22251

(Chemistry--Physical, TT, v. 11, no. 11)

TT-64-14945

I. Topchieva, K. V.
II. Rosol'skaya, E. N.

Office of Technical Services

Preparation of Stereospecific Polymers by
Y-Irradiation of Inclusion Complexes, by
O. Glavati, L. Polak.

RUSSIAN, par, Neftekhimiya, ~~1962~~ 1962, pp 318-323.

Vol II, No 3
CSIRO/No 6196 (1411)

Sci-Chem

Aug 63

OTS 63-19970 (911 3160)
LTS 63-19975 (911 3160)

341,999

Mavlyutova, E. G., Vigulyarov, G. N., and
Imaev, M. G.
VAPOR-PHASE OXIDATION OF PETROLEUM RAW-
MATERIAL TO PHTHALIC ANHYDRIDE IN A FLUID-
IZED CATALYST BED. 12p 4refs
Order from OTS, SLA, or HTC \$1.60 TT-64-16687

Trans. of Neftekhimiya (USSR) 1962, v. 2, [no. 3]
p. 362-367.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-64-16687

I. Mavlyutova, E. G.
II. Vigulyarov, G. N.
III. Imaev, M. G.

Office of Technical Services

Effect of the Reagent Structures and
Molecular Weights on the Reaction of
Aliphatic Alcohols with Primary Amines,
by G. A. Kliger, An N. Mashkurov,
Kuang-yu Lai, Yu. B. Kagan, 13p.
RUSSIAN, per, Neftekhimiya, Vol 2,
No 3, 1962, pp 384-390.
SLA TT-65-10232

333, 824

Sci
Aug 67

63-10665

Vigderhaus, M. S., Holbert, K. A. and others
GAS PARTITION CHROMATOGRAPHY OF ISOBUTANE:
OXIDATION PRODUCTS. [1962] 11p. (figs. omitted)
refs.

Order from OTS or SLA \$1.60

63-10665

Trans. of Neftkimiya (USSR) 1962, v. 2, no. 3,
p. 410-412.

DESCRIPTORS: Chemical analysis, Liquids, Oxidation, Hydrocarbons, *Hydrogen peroxide, *Chromatographic analysis, *Gas chromatography, *Butanes, Polymerization.

Analysis techniques of oxidation products of isobutane that is reduced to hydrogen peroxide were developed. Analysis of raw material and residual gas formed in oxidation process were developed. (Author)

(Chemistry--Analytical, TT, v. 9, no. 10)

I. Vigderhaus, M. S.
II. Holbert, K. A.

Office of Technical Services

TWELFTH CONFERENCE ON HIGH MOLECULAR COMPOUNDS
DEVOTED TO MONOMERS, BY M. A. DALIN, T. I.
CHERNYSHEVA, 13 PP.

RUSSIAN, PER, ^eNEFTAKHIMIYA, VOL 11, NO 3, 1962.
PP 415-419 _p

JPRS 15803

SCI-CHEM

OCT 62

215,001

REVIEW OF THE PROCEEDINGS OF THE SCIENTIFIC
AND TECHNICAL CONFERENCE ON ADDITIVES TO OILS
AND FUELS, BY YE. S. SHCHEPELEVA, AND V. V.
SHER, 10 PP.

RUSSIAN, PER, NEFTEKHIMIYA, VOL 11 NO 3, 1962,
PP 420-423.

JPRS 15803

SCI-CHEM
OCT. 62

F7D-TT-61-779
9696050 215,000

Tyuryaev, I. Ya. and Vinnik, N. F.
KINETIC RELATIONSHIPS IN THE ONE-STEP VAC-
UUM DEHYDROGENATION OF n-BUTANE TO BUTA-
DIENE. [1964] 9p 11 refs
Order from CTS, S.L.A. or ETC \$1.10 TT-64-10776

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4,
p. 436-441].

(Chemistry--Physical, TT, v. 11, no. 12)

TT-64-10776

I. Tyuryaev, I. Ya.
II. Vinnik, N. F.

Office of Technical Services

Bogdanova, O. K., Shcheglova, A. P., and Balandin, A. A.

THE CATALYTIC DEHYDROGENATION OF INDIVIDUAL ISOPENTENES INTO ISOPRENE. [1963]

[7p. 11 refs]

Order from OTS or SLA \$1.10

63-18843

Trans. of Neftekhimiy (USSR) 1962, v. 2 [no. 4] p. 442-447.

DESCRIPTORS: *Isoprene, *Pentenes, *Dehydrogenation, Catalysts, Catalysis, *Reaction kinetics, Temperature, Oxides,

Catalytic dehydrogenation kinetics of isopentene isomers to isoprene was studied on an oxide catalyst 560-600 C and a passage rate of 5 hour^{-1} , with steam dilution in wt. ratio 1:3. 2, 3. Reaction rate constants were determined and also the tendency for (Materials--Elastomers, TT, v. 10, no. 12) (over)

63-18843

- I. Bogdanova, O. K.
- II. Shcheglova, A. P.
- III. Balandin, A. A.

Office of Technical Services

Kazanski, B. A., Dorogochinski, A. Z. and others.
DEHYDROGENATION OF ISOPENTANE TO ISO-
AMYLENES ON THE ALUMINA-CHROMIA-POTASSIA
CATALYST. [1963] [13p] 16 refs
Order from OTS or SLA \$1.60

63-20214

Trans. of Neftekhimlya (USSR) 1962, v. 2, no. 4,
p. 448-456.

DESCRIPTORS: *Catalysts, Oxides, Potassium
compounds, Chromium compounds, Aluminum com-
pounds, *Pentanes, Dehydrogenation, *Pentenes,
Ethylenes.

A systematic study was made on dehydrogenation of
isopentane to amylenes upon the stationary and
fluidized catalyst K-544, which was stable; catalyst
consumption did not exceed 0.47 wt. % of raw material,
which permits its use as mobile catalyst. Regeneration
(Engineering-Chemical, TT, v. 10, no. 11) (over)

63-20214

1. Title: Isoamylenes
- I. Kazanski, B. A.
- II. Dorogochinski, A. Z.

Office of Technical Services

TT-64-10107

I. Shulkin, N. I.
II. Timofeeva, E. A.
III. Plotnikov, Yu. N.

Shulkin, N. I., Timofeeva, E. A., Plotnikov, Yu. N.,
and others.

PRODUCTION OF ALKENES C₆-C₁₀ BY CATALYTIC
DEHYDROGENATION OF ALKANES. [1963] 17p33refs
Order from ODS, SLA, or ETC \$1.60 TT-64-10107

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4]
p. 457-466. (Abstract available).

DESCRIPTORS: *Alkenes, *Hexenes, Production,
*Alkanes, *Hexanes, *Dehydrogenation, *Catalysis,
Catalysts, Aluminum compounds, Chromium com-
pounds, Potassium compounds, Oxides.

Dehydrogenation of 2-methylpentane, 3-methylpentane
and 2,3-dimethylbutane on alumina-chromia-potassala
catalyst at 500°C and a space velocity of 0.5 hour⁻¹
showed that C₆ alkanes, with a chain shorter than 6 C
atoms, give easily 32 to 40% of alkenes in the cata-
lyzate. Existence of two types active centers, dehy-
(Chemistry--Organic, TT, v. 11, no. 5) (over)

Office of Technical Services

Belomestnykh, I. P., Bogdanova, O. K., and
Balandin, A. A.

EFFECT OF STRUCTURE OF HYDROCARBONS ON
THEIR DEHYDROGENATION KINETICS. [1963] [7p]

Srefs

Order from OTS or SLA \$1.10

63-20211

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4]
p. 467-472.

DESCRIPTORS: *Hydrocarbons, *Dehydrogenation,
*Molecular structure, Reaction kinetics.

Catalytic dehydrogenation kinetics was studied on a
series of alkaryls. It was found, that all alkylaromatic
hydrocarbons with branched radicals and with substituents
in the ring dehydrogenate more rapidly. Changes
of free energy, heat content, entropy were determined
during adsorptive displacement from the catalytically
(Chemistry--Organic, IT, v. 10, no. 11) (over)

63-20211

I. Belomestnykh, I. P.
II. Bogdanova, O. K.
III. Balandin, A. A.

Office of Technical Services

Shulkin, N. I. and Naryshkina, T. I.
CATALYTIC DEHYDROGENATION OF PETROLEUM-
METHYLCYCLO-PENTANE. [1963] 10p 20refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10102

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4]
p. 473-479. (Abstract available)

DESCRIPTORS: *Petroleum, *Cyclopentanes, Methyl
radicals, *Dehydrogenation, Catalysis, *Catalysts,
Aluminum compounds, Chromium compounds,
Potassium compounds, Oxides, Activated carbon,
*Cyclopentadiene, Production.

The reaction of dehydrogenation of the methylcyclo-
propane fraction 69-75 C from Baku gasoline of straight
distillation was investigated in the presence of different
oxide catalysts and active carbon. It was established,
that at 600 C, under a pressure reduced to 15-20 mm.
Hg. and at a supply rate of 0.3 hour⁻¹, the yield in
(Chemistry--Organic, TT, v. 11, no. 5) (over)

TT-61-10102

I. Title: Methylcyclopentane
I. Shulkin, N. I.
II. Naryshkina, T. I.

Office of Technical Services

63-20209

Lavrovskii, K. P., Brodskii, A. M., Musaev, I. A.,
Sanin, P. I. and Rumyantsev, A. N.
PRODUCTION OF HIGHER NORMAL α -OLEFINS BY
HIGH-SPEED CRACKING OF PARAFFINIC PETRO-
LEUM PRODUCTS. [1963] [11p] 15refs
Order from OTS or SLA \$1.60 63-20209

I. Lavrovskii, K. P.
II. Brodskii, A. M.
III. Musaev, I. A.
IV. Sanin, P. I.
V. Rumyantsev, A. N.

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4]
p. 487-494.

DESCRIPTORS: *Petroleum, Synthetic waxes, Distilla-
tion, *Ethylenes, Production, *Hydrocarbons, Gas
chromatography, Gasoline, Decomposition.

Production possibility of unsaturated hydrocarbons,
particularly α -olefins, through high-speed cracking of
paraffinic petroleum products was investigated. It was
found, that the cracking gases contain 30-50% ethylene.
The fraction 60-175 C, produced in cracking of solid,
(Engineering--Chemical, TT, v. 10, no. 11) (over)

Office of Technical Services

ATC-70K77E

Manukovskaya, L. G., Solomin, A. V., Suvorov,
B. V., and Rafikov, S. R.
CONTINUOUS METHOD FOR TEREPHTHALIC ACID
PRODUCTION BY LIQUID-PHASE OXIDATION OF
p-XYLENE. [1963] [6p] 18refs
Order from OTS or SLA \$1.10

63-20213

Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 4,
p. 531-535.

DESCRIPTORS: *Xylenes, Oxidation, *Terephthalic
acid, Chemical reactions, Synthesis (Chemistry).

Liquid phase oxidation of p-xylene by molecular oxygen,
with and without n-butyric acid as solvent, was studied
in the presence of cobalt bromide catalyst. It was
found that the oxidation degree in the presence of CoBr_2
is greatly increased by addition of easy oxidable sub-
stances to the reaction mixture (e. g. n-butyraldehyde)
(Engineering--Chemical, TT, v. 10, no. 11) (over)

63-20213

I. Manukovskaya, L. G.
II. Solomin, A. V.
III. Suvorov, B. V.
IV. Rafikov, S. R.

Office of Technical Services

63-20216

Ustavshchikov, B. F., Farberov, M. I., and
Podgornova, V. A.

SYNTHESIS OF METHACRYLIC ACID ON THE
BASIS OF ISOBUTYLENE. [1963] [10p] 12 refs

Order from OTS or SLA \$1.10

63-20216

Trans. of Neftskhimiya (USSR) 1962, v. 2 [no. 4]
p. 592-599.

DESCRIPTORS: *Butenes, *Acrylic acids, Methyl
radicals, Synthesis (Chemistry), *Canavanine, Nitrogen
compounds, Oxides, Catalysts, *Acrylic resins.

Reaction conditions of isobutylene with nitrogen tetrox-
ide were found, producing α -oxyisobutyric acid in
~ 80% yield. Nitroization and not nitration occurs
under the conditions indicated and the intermediate
 α -nitro-isobutyric acid is formed from the isonitro-
socompound α -nitroisobutyric aldehyde. Catalyst
and conditions were chosen for production of metha-
crylic acid in almost quantitative yield. (Author)

I. Ustavshchikov, B. F.
II. Farberov, M. I.
III. Podgornova, V. A.

(Engineering--Chemical, TT,
v. 10, no. 11)

Office of Technical Services

Tepenitsyna, E. P., Dorogova, N. K., and
Farberov, M. I.

STUDY ON THE REACTION OF SELECTIVE OLIGOMERIZATION OF BUTADIENE TO CYCLODODECATRIENE. [1963] [10p] 16 refs
Order from OTS or SLA \$1.10

63-20210

Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 4,
p. 604-610.

DESCRIPTORS: *Butadienes, Chemical reactions,
*Cyclododecatriene, Ziegler catalysts.

A series of catalytic systems for cyclododecatriene (CDT) production was investigated and three systems were the most active: $\text{Al}(\text{C}_2\text{H}_5)_2\text{Cl} + \text{TiCl}_4$; $\text{Al}(\text{C}_2\text{H}_5)_3 + \text{CrCl}_3$; $\text{Al}(\text{i-C}_4\text{H}_9)_3 + \text{CrCl}_3$. All three had high stereospecificity, forming only one of the two CDT forms, as a function of the second component in (Chemistry--Organic, ITT, v. 10, no. 11) (over)

63-20210

- I. Title: Oligomerization
- I. Tepenitsyna, E. P.
- II. Dorogova, N. K.
- III. Farberov, M. I.

Office of Technical Services

NEF LAMINITA
1962 V2 P617-523
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1965 U3 N3 P110-455
70-21174 <*>
70-21076 <*>
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Mieserov, K. G.
ROLE OF THE CARRIER IN CHROMIA CATALYSTS
FOR POLYMERIZATION. [1964] 10p 3refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10777
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p. 681-687.

(Chemistry--Organic, TT, v. 12, no. 2)

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I. Mieserov, K. G.

Office of Technical Services

Catalytic Demethylation of Toluene, by
G. N. Maslyanskiy.
RUSSIAN, par, Neftekhimiya, Vol 2, No 5, 1962,
pp 709-715.
ATS RJ-5383

Sci-Chem
June 70

TT-64-10778

Kamzolkin, V. V., Beshkirov, A. N., Kamzolkina,
E. V., and Lodzik, S. A.

ON SOME RELATIONSHIPS IN THE LIQUID-PHASE
OXIDATION OF OLEFINS. [1964] 7p 22refs

Order from CTS, SLA, or ETC \$1.10 TT-64-10778

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I. Kamzolkin, V. V.
II. Beshkirov, A. N.
III. Kamzolkina, E. V.
IV. Lodzik, S. A.

(Chemistry--Organic, IT, v. 12, no. 1)

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TT-64-16867

Mamedov, Sh., Rzaev, A. S., and Nizker, I. L.
SYNTHESIS OF NEW PLASTICIZERS FROM THE
KEROSENE BOILING RANGE NAPHTHENIC ACIDS.

9p (3 tables omitted) 11 refs.

Order from OTS, SLA, or ETC \$1.10 TT-64-16867

Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 5,
p. 788-792.

Partial trans. (p. 789-792) is available from OTS, SLA
or ETC \$1.10 as TT-64-14277 [4p].

I. Mamedov, Sh.
II. Rzaev, A. S.
III. Nizker, I. L.

(Materials--Plastics, TT, v. 12, no. 4)

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Gulyaev, G. V., Kozlov, G. I. and others.
THE CONVERSION OF METHANE TO ACETYLENE
IN A PLASMA JET. [1963] 3p.
Order from ATS \$5.00

ATS-21Q70R

Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 5,
p. 793-794.

DESCRIPTORS: *Methanes, *Acetylenes, Plasma jets,

(Chemistry--Organic, TT, v. 10, no. 6)

63-17776

I. Gulyaev, G. V.
II. Kozlov, G. I.
III. ATS-21Q70R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RJ-3959

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Chromatographic Determination of Heats of
Adsorption of Lower Hydrocarbons by Type
5a Zeolites, by A. V. Kiselev, E. V. Khra-
pova, K. D. Shcherbakova, 9pp.
RUSSIAN, per Neftekhimiya, Vol 2, No 6,
1962, pp 877-884.
CFSTI ATS-76R77R.

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Sci - Chemistry
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TT-64-10105

Blyumberg, E. A., Norikov, Yu. D., and Smirnov, E. S.

APPLICATION OF GAS-LIQUID CHROMATOGRAPHY FOR THE ANALYSIS OF THE OXIDATION PRODUCTS FROM SOME HYDROCARBONS. [1963] 6p 4 refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10105

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 6]
p. 897-900. (Abstract available)

DESCRIPTORS: *Hydrocarbons, *Butanes, Oxidation, Peroxides, Alcohols, Carboxylic acids, Esters,
*Chromatographic analysis,

The method of gas-liquid chromatography was applied for analysis of the neutral products from liquid-phase oxidation of n-butane. A method of separation and of quantitative determination was developed for the oxidation products of high boiling hydrocarbons, by application of chromatograph with microcathinometer, which permit measurements at 400 C. (Author)

I. Blyumberg, E. A.
II. Norikov, Yu. D.
III. Smirnov, E. S.

(Chemistry--Analytical, TT,
v. 11, no. 5)

Office of Technical Services

TT-64-10096

Karpulhina, G. V. and Maizus, Z. K.
STUDY ON LIQUID-PHASE OXIDATION OF n-DECANE
WITH APPLICATION OF GAS-LIQUID CHROMATOGRAPHY. [1963] 6p 11 refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10096

1. Title: Decanones
- I. Karpulhina, G. V.
- II. Maizus, Z. K.

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 6]
p. 901-905. (Abstract available)

DESCRIPTORS: *Decanes, Oxidation, *Ketones,
Synthesis (Chemistry), Chromatographic analysis,

A method was developed for separation of the ketones C7-C10 and of isomeric decanones with the carbonyl-group in positions 2, 3 and 4 by means of gas-liquid chromatography on different liquid immobile-phases. It was shown, that during oxidation of n-decane the ketones with a shorter chain were not formed, i. e. the successive reactions of formation of oxidation products (Chemistry--Analytical, TT, v. 11, no. 9) (over)

Office of Technical Services

TT-64-14455

Fel'dblyum, V. Sh., Komissarova, G. P.,
Myasnikova, L. D. and others.

ISOPRENE SYNTHESIS FROM PROPYLENE. I. ANALYSIS OF ALKYLALUMINUMS DURING PROPYLENE DIMERIZATION. [1963] 8p 20refs
Order from OTS, SLA, or ETC \$1.10 TT-64-14455

Trans. of Neftekhimiya (USSR) 1963, v. 3 [no. 1]
p. 13-19. (Abstract available)

DESCRIPTORS: *Isoprene, Synthesis (Chemistry),
*Propenes, Polymerization, Catalysts, *Metalorganic
compounds, *Ziegler catalysts, Aluminum compounds.

A comparative evaluation was made of the results,
produced by the most used methods for aluminum-
alkyls analysis in the process of propylene dimeriza-
tion. In addition to these methods, a simple procedure
of determination of the starting catalyst activity in the
(Chemistry--Organic, TT, v. 11, no. 7) (over)

1. Title: Aluminum tri-
isobutide

I. Fel'dblyum, V. Sh.
II. Komissarova, G. P.
III. Myasnikova, L. D.
IV. Title: Analysis ...

Office of Technical Services

The Synthesis of Isoprene from Propylene. 2.
Isomerization of Liquid 2-Methylpentene-1
on Solid Acid Catalysts, by V. Sh.
Fel'dblyum, S. I. Kryukov, M. I. Barbarov,
A. V. Galovko, I. Ya. Ilyayev, Lp.
RUSSIAN, per, Neftekhimiya, Vol 3,
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SLA TT-65-10233

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Comparison of the Reactivities of Allylben-
zene and of Allylcyclohexene Polymerizations
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E. A. Mashina, A. I. Pere'man, 13p.
RUSSIAN, per, Khimiya, Vol 3,
No 1, 1963, pp 74-81.
SLA TT-65-10237

Sci
Aug 67

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TT-64-10162

Bakalo, L. A., Krentsel, B. A., and Topchev, A. B.
THE STUDY OF CATALYTIC POLYMERIZATION OF
EPICHLOROHYDRIN. [1964] [18p] (2 figs omitted)

20refs

Order from OTS, SLA, or ETC \$1.60 TT-64-10162

Trans. of Neftekhimiya (USSR) 1963, v. 3, p. 206-216.

I. Bakalo, L. A.
II. Krentsel, B. A.
III. Topchev, A. B.

(Chemistry--Organic, TT, v. 11, no. 12)

Office of Technical Services

Radiation Polymerization of n-Heptane
in Presence of $TiCl_4$, by Yu. A. Kolbanovskiy,
I. S. Polak, et al, 8 pp.
RUSSIAN, per, Khimiya, Vol III, No 2,
1963, pp 222-226. 9697341
NTP-7T-65-31

Sci-Phys
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Kryukov, Yu. B., Smirnova, R. M. and others.
THE INTERMEDIATE STAGES OF LIQUID PHASE
OXIDATION OF SECONDARY ALCOHOLS TO
KETONES. [1963] [10]p. 24 refs.
Order from OTS or SLA \$1.10 63-18844

I. Kryukov, Yu. B.
II. Smirnova, R. M.

Trans. of Neftekhimiya (USSR) 1963, v. 3, no. 2,
p. 238-245.

DESCRIPTORS: *Ketones, *Alcohols, *Oxidation,
Phase studies, Oxygen, Isotopes, Hydroxyl radicals,
Exchange reactions.

It was established by the example of tetradecanols, that
the liquid-phase oxidation process of higher secondary
alcohols by molecular oxygen, enriched with the heavy
isotope O18, is accompanied by an oxygen isotope ex-
change between the reaction products - ketone and
water. The exchange rate is slower than the reaction
rate, leading to oxygen exchange. Process of sec.
(Chemistry--Organic, TT, v. 10, no. 12) (over)

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Alkylation of Ferrocene by Olefins in the Presence of Compounds of Boron Fluoride and Aluminum Chloride, by Ya. M. Paushkin, T. P. Vishnyakova,

7 pp.

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I. Ivanov, K. I.
II. Savinova, V. K.
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Bogdanov, M. I.
CALCULATION OF DEHYDROGENATION REACTION
EQUILIBRIA IN CONVERSIONS OF BUTANE-BUTYL-
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p. 488-493.

(Chemistry--Physical, TT, v. 11, no. 11)

TT-64-14954

I. Bogdanov, M. I.

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Initiiertes Kracken von Propan-Butan-Gemischen,
by A. D. Stepukhovich.
RUSSIAN, per. Naftokhimiya, Vol 3, No 4, 1963,
pp 531-540.
NII 5413.2835 (Mil-tiv-16)

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Blyumberg, E. A., Malievski, A. D., and
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Order from ATS \$13.75

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II. Malievski, A. D.

III. Emanuel, N. M.

IV. ATS-65R74R

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East Orange, N. J.

Office of Technical Services

Denisov, E. T. and Kharitonov, V. V.
KINETIC-EQUILIBRIUM CONCENTRATIONS OF
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Order from ATS \$11.75

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TT-64-12756

- I. Denisov, E. T.
- II. Kharitonov, V. V.
- III. ATS-67R74R
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

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Radiation Polymerization of Allyl Alcohol and Some
Other Allyl Derivatives, by S. A. Dolmatov,
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Polysiloxanes as Antifrictional and Anti-
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Viscosity of C₂₄ and C₂₈ Polycyclic
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on Their Action as Admixtures to
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9 pp.
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lation of Toluene with Steam, by T. I. Poletayeva.
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Mechanism of Catalytic Partial Oxidation and Oxidative
Ammonolysis of Propylene in the Presence of MoO_3 -
 Ni_2O_3 , by A. I. Gel'bshteyn,
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M. A. Ryashentsava, Yu. I. Derbentsev,
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42,667

Sci - Fuels

USSR

Economic - Fuels

Jan 57 CTS